

Esmedica V 5142E

Polyvinyl Chloride
Sekisui Chemical Company, Ltd.

Message:

Esmedica V 5142E is a Polyvinyl Chloride product. It can be processed by blow molding, casting, or extrusion and is available in North America. Applications of Esmedica V 5142E include food contact applications and medical/healthcare.

General Information			
Uses	Medical Devices		
Agency Ratings	FDA Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Blow Molding		
	Casting		
	Extrusion		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	84		ASTM D2240

Films	Nominal Value	Unit	Test Method
Water Vapor Transmission	18	g/m ² /24 hr	ASTM E96

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	5.39	MPa	ASTM D412
Tensile Strength (Yield)	17.7	MPa	ASTM D412
Tensile Elongation (Break)	440	%	ASTM D412

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.3E+14	ohms	ASTM D257
Volume Resistivity	8.1E+12	ohms · cm	ASTM D257
Dielectric Constant (1 kHz)	4.90		ASTM D150

Optical	Nominal Value	Unit	Test Method
Transmittance	94.2	%	ASTM D1003
Haze	2.7	%	ASTM D1003

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